



Gulf of Mexico Harmful Algal Bloom Bulletin

26 March 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: March 22, 2007

Conditions Report

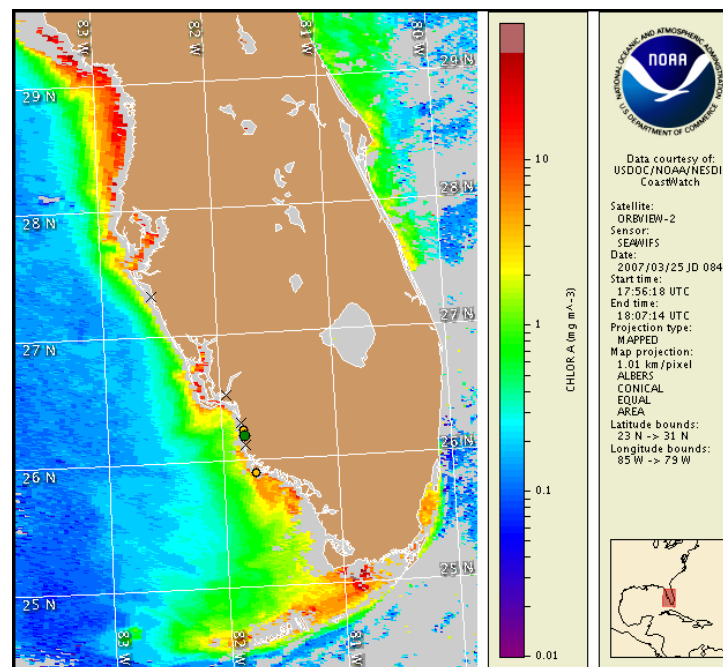
A harmful algal bloom has been identified in patches from southern Lee to central Collier County. Patchy very low impacts are possible from southern Lee County to central Collier County today through Thursday. No other impacts are expected.

Analysis

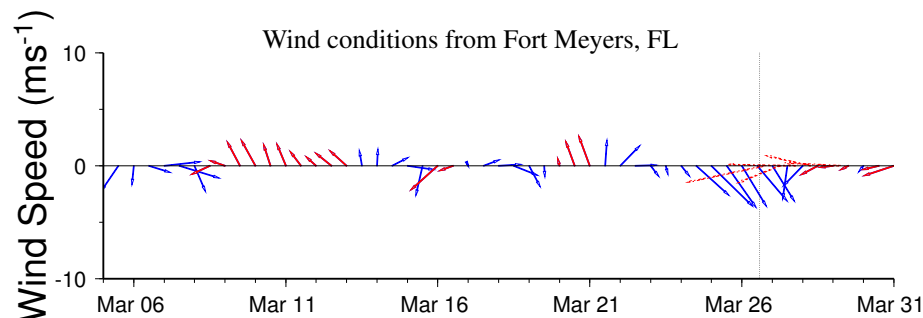
The harmful algal bloom persists from southern Lee County to central Collier County. Recent sampling results indicate very low to low concentrations from Lighthouse Beach, Sanibel Island to Caxambas Pass in Collier County (FWRI: 3/21). Satellite imagery (3/25) illustrates an elevated patch of chlorophyll offshore of Collier County from 25°52'47"N, 81°43'51"W to 25°37'51"N, 81° 35'36"W along its north-south axis with concentrations as high as 5 $\mu\text{g/L}$. Concentrations are slightly higher (8 $\mu\text{g/L}$) around 25°37'11"N, 81°25'8"W. Continued sampling is recommended. Easterly winds throughout the week will minimize coastal impacts.

An elevated patch of chlorophyll remains offshore of the gulf side lower keys with a maximum chlorophyll greater than 10 $\mu\text{g/L}$ around 24°48'48"N, 81°18'23"W to the northeast of Big Pine Island. No recent samples are available for the Lower Keys. Continued sampling is recommended.

~Keller, Allen



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from March 16-22 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf



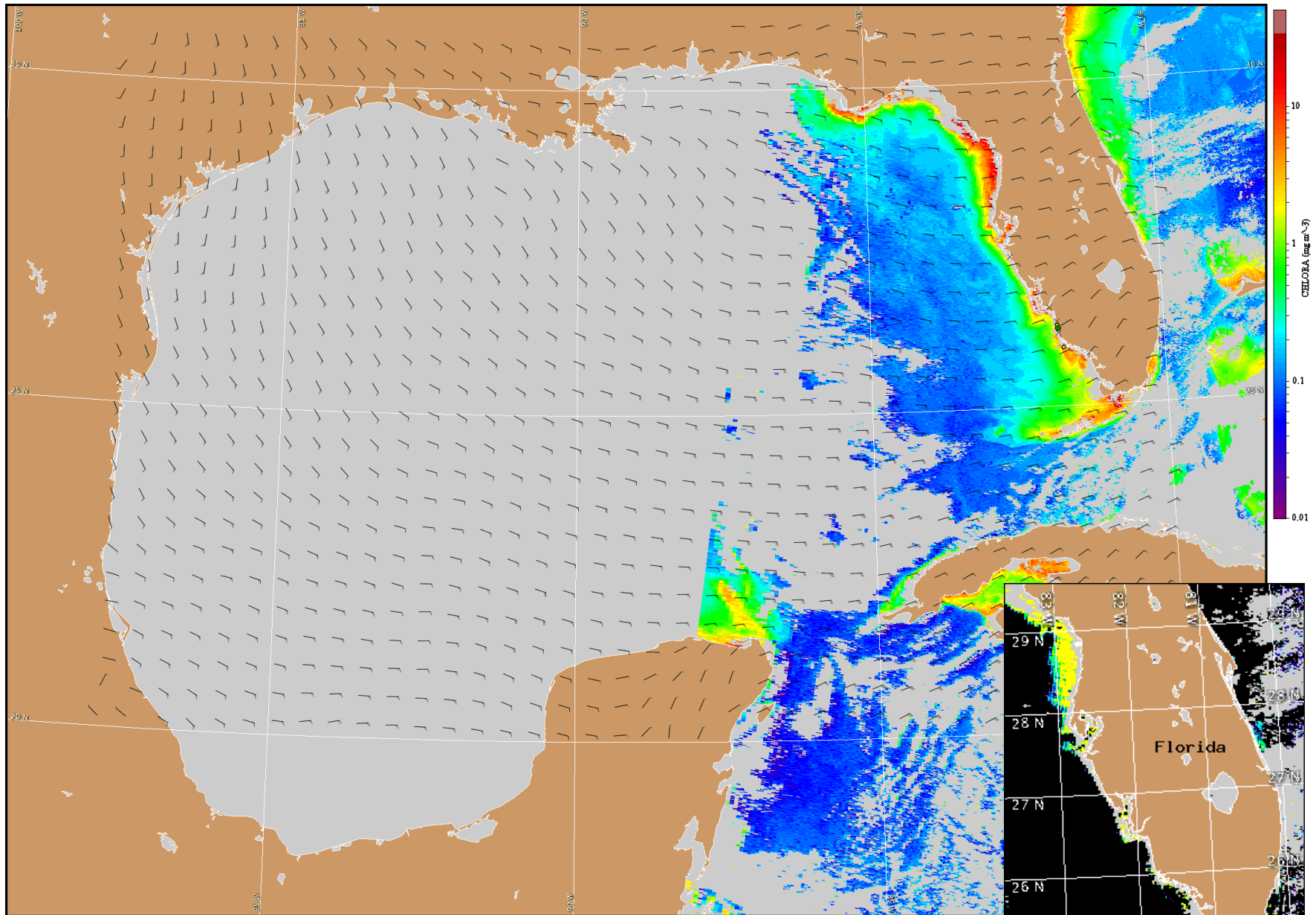
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Easterly winds today with northeasterly winds on Tuesday (10-15 knots; 5-8 m/s). Easterly winds Tuesday night through Thursday (5-10 knots; 3-5 m/s).

Lower Keys: Northeasterly to easterly winds today through Thursday (15-20 knots; 8-10 m/s).

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



Satellite chlorophyll image and forecast winds for March 27, 2007 12Z with cell concentration sampling data from March 16-22 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).

